Work Orde July 28, 2009 1.	er ID 50976 :55:18 PM										Page 1
Item ID: Revision ID: Item Name:	D2580-1 D 205 Skidtube bent detail			Accept					Setup St	1 1001110	
Start Date: Required Date: Reference:		Oty: 2.00 Oty: 2.00			Cust Item I Customer:	ID:					
Approvals:	Process Plan:		Date:	Tooling: SPC (Y/N):		ate:		I		art	
Sequence ID/ Work Center II	Operati D Descrip			Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. r Stamp
Draw Nbr	Revision Nb	r									
D2580	Rev D										
				0.00	· · · · · · · · · · · · · · · · · · ·			Q	Ø		Awn 9-8-1
HandFinish Hand Finishing		Memo	nat'l D2500-1-190 fe	0.00 or damage							
			l Conversion Coat as	_							
110 } 				0.00				2	æ		1000 -
Skidtubes		Memo		0.00				2	للحيكر	-	AUM9-8
Skidtubes		I-Drill pilot	holes using drill jig	DT 8149 (Do not use cutting fluid)						
		2-Open hole	es to 0.500" as per D	wg D2580 without cutting fluid							
		3-Deburr an	nd blow out all chips	from inside of tube							
		4-Bond web	in place per QSI 01	5.							
			Number[] Descript Sikaflex-291 Dire date:	ion 00Batch	7//239/ \ 01 - 20 -	<u> </u>	lwn	9-5-	2		

Dart /	Aeros	pace	Ltd
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W/O:	1		W	ORK ORDER CHANG	ES			
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date Q	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA:_	Date: _	
	Res	solution:	Dispositio	n:	_ QA: N/C CI	osed:	Date: _	<u>.</u> .
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCR)		;
DATE	STEP	Description of NC	Initial	Corrective Action Section	on B	Verificati		Approval
		Section A	Chief Eng	Action Description Chief Eng	Date	Section C	Chief Eng	QC Inspector

Page 2

July 28, 2009 1:55:18 PM

Item ID:

D2580-1

D

Revision ID: 205 Skidtube bent detail

Item Name: **Start Date:**

7/30/09

QC:

Req'd Qty: 2.00



Accept



Setup Start



Stop

Start Qty: 2.00 Required Date: 8/07/09



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

___ Date: ____

Tooling:

SPC (Y/N):

Date:

Run

Start

Stop



Sequence ID/ **Work Center ID**

120

Quality Control

Operation Description

QC3- Inspect Part Finish

Memo

Memo

Set Up/ Run Hours

0.00

0.00

Draw

Number

Draw Rev.

Date:

Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

M 9/8/24

130

Quality Control

QC5- Inspect part completeness to step on W/O

=> S calcology

140

Packaging

Identify as per dwg & Stock Location:

0.00

Memo

0.00

H 9/8/24

Packaging

	•								
W/O:			W	ORK ORDER CHANG	ES		***************************************		
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	:								
Part No	•	PAR #:	Fault Cate	egory:	_ NCR: Yes	No DQ	A :	_ Date: _	·
	Re	esolution:	Dispositio	n:	_ QA: N/C	Closed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
DAIL	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Sect	ion C	Chief Eng	QC Inspector
				4					
							•		

Work Order ID 50976

July 28, 2009 1:55:18 PM



Page 3

Item ID:

D2580-1

Accept

Setup Start

Revision ID:

D

Item Name:

205 Skidtube bent detail

Start Date: 7/30/09 Required Date: 8/07/09 Start Qty: 2.00

Req'd Qty: 2.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop

QC:

Date: ______

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

150

Operation Description

QC21- Final Inspection - Work Order Release

Set Up/ Run Hours

0.00

Draw Number

Draw Rev.

Plan Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

Memo

0.00

Quality Control

a 97.08,24

Dart Ae	rospace	e Ltd							t
W/O:			W	ORK ORDER CHANGE	S				
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:							
	R	esolution:	Dispositi	on:	QA: N/C CI	osed:		Date: _	
NCR:		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	WORK ORI	DER NON-CONFORMA	NCE (NCF	R)			-
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	n B Sign 8 Date	Verific Secti	cation on C	Approval Chief Eng	Approval QC Inspector
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	1	Description of NC		Corrective Action Section B		Verification	Annroval	Annroyal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
								:
		·						











Ext'n -'I' Beam Tube 4"

Picklist Print

July 28, 2009 1:55:17 PM

D2580-1RevD

Parent Item Name: 205 Skidtube bent detail

Work Order ID: 50976

Parent Item:

Comments:



Start Date: 7/30/09

Start Qty: 2.00

Required Date: 8/07/09

Required Qty: 2.00

•	Item Name	Item ID	Nig/ Purch	Item	Primary Location	Last Location	Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status	
P	D2500-1-190RevU/R		Manufactured	No		···	100	Each	0.0000	2.0000			ريبي س	(3)
											3-50166	AWM 9-	8-18	A

Manufactured

110

Each

8.0000

2.0000

B-50762 9-5-21 *

Warehouse	Loc Qty	Loc Code	
Location			
Main Warehouse			
LG	8		
50764	8		

Part No: PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Corrective Action Section B											
Part No:PAR #: Fault Category:NCR: Yes No DQA:Date:	W/O:			WO	RK ORDER CHANG	GES		•			
Resolution:	DATE	STEP	PRO	CEDURE CHAI	NGE		Ву	Date	Qty	Chief Eng /	Approval QC Inspector
Resolution:											
Resolution:											
Resolution:											
Resolution:											
NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A Approval Initial Action Description Sign & Section C Chief Eng OC Inspec	Part No										
DATE STEP Description of NC Section A Description of NC Section A Description Section B Sign & Section C Chief Eng OC Inspec		Re	esolution:	Disposition):	QA:	N/C Clo	sed:		Date: _	
DATE STEP Description of NC Initial Action Description Sign & Verification Approval	NCR:			WORK ORDE	ER NON-CONFORM	ANCE	(NCR)				
Section A Initial Action Description Sign & Section C Chief Eng QC Inspec	DATE	STED	Description of NC					Verific	ation	Approval	Approval
	DATE	SIEF						Secti	on C		QC Inspector
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DESIG	* ##	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED,	APPROVED	DRAWING NO. REV. D
	M	#	D2580 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	02.27		205 SKIDTUBE ASSEMBLY NTS
Α		96.09.16	NEW ISSUE
В		96.12.02	AS MANUFACTURED
C		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
D		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183



QTY -041	QTY -045	Part Number	Description
X		D2580-041	SKIDTUBE ASSEMBLY
	Х	D2580-045	SKIDTUBE ASSEMBLY
1	1	D2500-1-190	EXTRUSION
1	1	D2576-3	STEP
20	24	D2579	CROSS BOLT SPACER
16	16	D2594-1	PLUG
16	16	D2594-3	O-RING
1	1	D2596	205 WEB
1	1	D2855	AFT CAP
1	1	D3564-5	WEARSHOE
1	1	D3564-9	WEARSHOE
1	1	D3564-11	WEARSHOE
1	1	D3564-13	WEARSHOE
2	2	D3566-1	GASKET
1	1	D3566-5	GASKET
1	1	D3566-13	GASKET
50	50	ALS7-1032-130	INSERT
		or AKS7-1032-130	
		or AKS4-1032-130	
		or AELS-1032-130	
50	50	AN3C4A	BOLT
2	2	AN3-5A	BOLT
50	50	AN960C10L	WASHER
2	2	AN960JD10L	WASHER

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

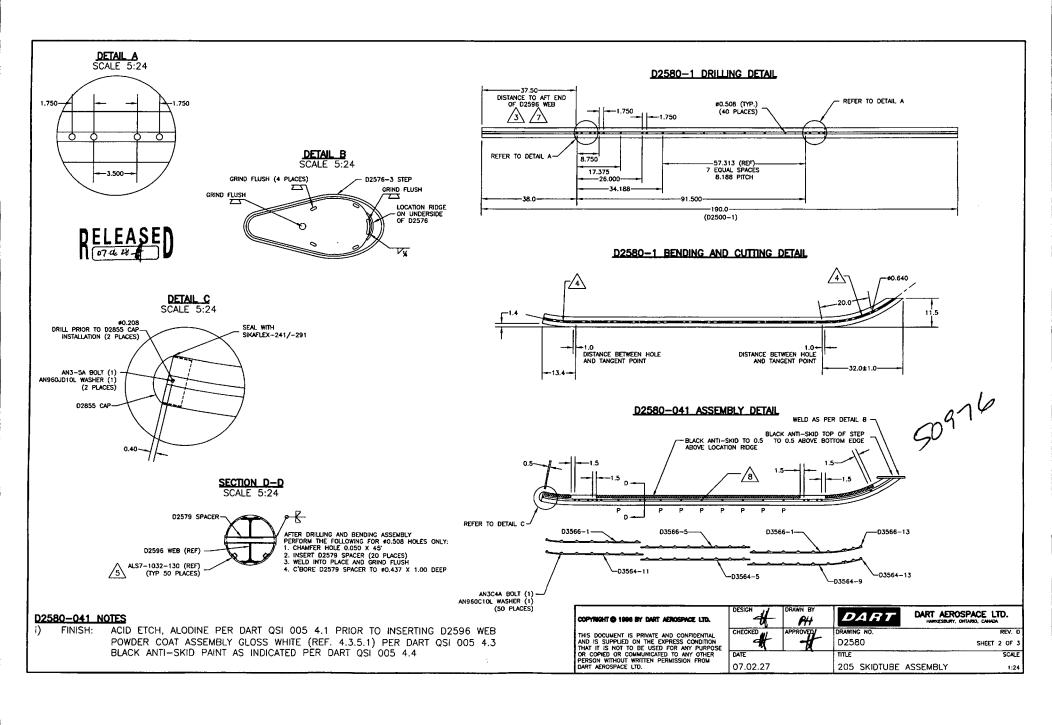
SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

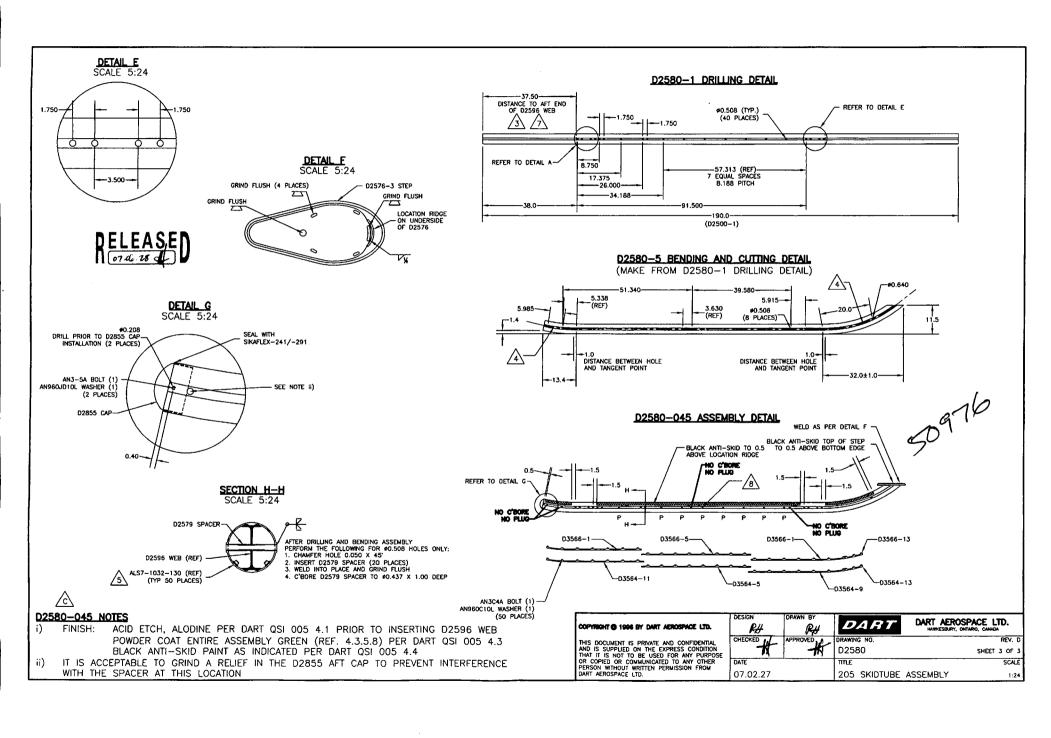
Copyright @ 1996 by DART AEROSPACE LTD

W/O:			WORK ORDER CHANGES								
DATE	STEP	PF	OCEDURE CHANGE	Ву	By Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
<u>. </u>											
Part No	•	PAR #:	Fault Category:	NCR: Ye	s No DQ	A :	Date:				
	Resolution	n:	Disposition:	QA: N/C	Closed:		Date: _				

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE	T	Description of NC	Corrective Action Section B			Varification	A	A		
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector		
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W/O:			WO	RK ORDER CHANGES	3					
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
	i									
Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A:	Date:		
		esolution:	Disposition: Q			QA: N/C Closed: Date				
NCR:		V	VORK ORDE	R NON-CONFORMAN	CE (NCF	₹)				
DATE	STEP	Description of NC	Corrective Action Section B			Verific	Verification	Approval	Approval	
DAIL		Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date		Section C	Chief Eng	QC Inspector	
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W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:				

Resolution:		esolution:	Disposition:		QA: N/C Clos	sed:	Date:	
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DATE	STEP	EP Description of NC Section A	Corrective Action Section B			Verification		A
			Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector